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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/645,046	08/21/2003	Alvin Mark Terry	41942-05541	6537
7590 08/23/2005			EXAMINER	
MARSH FISCHMANN & BREYFOGLE LLP			WINAKUR, ERIC FRANK	
Suite 411 3151 South Vaughn Way Aurora, CO 80014			ART UNIT	PAPER NUMBER
			3736	

DATE MAILED: 08/23/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		9
	Application No.	Applicant(s)
	10/645,046	TERRY, ALVIN MARK
Office Action Summary	Examiner	Art Unit
	Eric F. Winakur	3736
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period of - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).
Status		
1) ⊠ Responsive to communication(s) filed on 22 Jet 2a) ☐ This action is FINAL. 2b) ☑ This 3) ☐ Since this application is in condition for alloware closed in accordance with the practice under Expression 1.	action is non-final. nce except for formal matters, pro	
Disposition of Claims		
4) Claim(s) 1-36 is/are pending in the application 4a) Of the above claim(s) 10-36 is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 1-9 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	vn from consideration.	
Application Papers		
9) The specification is objected to by the Examine 10) The drawing(s) filed on 21 August 2003 is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine 11.	a) accepted or b) ⊠ objected drawing(s) be held in abeyance. Se tion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		•
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	is have been received. Is have been received in Applicat Irity documents have been receive In (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 7/2/04.	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	

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DETAILED ACTION

Election/Restrictions

Applicant's election without traverse of Invention I in the reply filed on 22 July
 acknowledged.

2. Claims 10 - 36 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 22 July 2005.

Drawings

3. New corrected drawings in compliance with 37 CFR 1.121(d) are required in this application because Figures 4 and 7 - 11B are informal or include informal aspects. Applicant is advised to employ the services of a competent patent draftsperson outside the Office, as the U.S. Patent and Trademark Office no longer prepares new drawings. The corrected drawings are required in reply to the Office action to avoid abandonment of the application. The requirement for corrected drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 1, 2, 5, 8, and 9 are rejected under 35 U.S.C. 102(b) as being anticipated by Diab et al. Diab et al. teach an oximeter arrangement (Figure 12; column 15, line 37 column 16, line 34) for processing red and infrared light samples including performing

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Fourier transforms on the measured data. The frequency domain information can be further processed to extract the pulse rate information (see Figure 12 elements 1260, 1252 and Figure 17 and the description of "Transform Based Pulserate Detection" which begins in column 20). The Fourier transforms can be implemented with fast Fourier transforms (column 22, lines 54 - 59).

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 3, 4, 6, and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Diab et al. as applied to claims 1 and 5 above. Diab et al. teach that fast Fourier transforms may be used in processing the signals, but do not teach particular details of the processing. It would have been obvious to one of ordinary skill in the art at the time of the invention to implement the processing of the fast Fourier transforms with known steps, including adjusting the size of the transformed portion to correspond with a desired signal under analysis. Further, for analysis of a periodic signal, such as heart rate, it is known to limit the analyzed data to data that corresponds with the period of the signal to obtain the desired results.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eric F. Winakur whose telephone number is 571/272-4736. The examiner can normally be reached on M-Th, 7:30-5; alternate Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eleni Mantis-Mercader can be reached on 571/272-4740. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Eric F Winakur Primary Examiner Art Unit 3736